

ABSTRACT OF THE DISCLOSURE

In order to improve various characteristics of a receiving circuit for digital audio radio services, circuits are provided for forming two local oscillation signals, whose frequencies are both the center frequency between a first ensemble and a second ensemble, and whose phases differ by  $90^\circ$  from each other. Furthermore, there is provided mixer circuits for frequency-converting the received signal into intermediate frequency signals in accordance with the local oscillation signals, phase-shift circuits to which the intermediate frequency signals are supplied, and an addition/subtraction circuit for performing one of addition and subtraction of the outputs of the phase-shift circuits. In addition, there is provided intermediate frequency filters to which the output signal of the addition/subtraction circuit is supplied, and demodulation circuits to which the output signals of the intermediate frequency filters are supplied. By switching the process in the addition/subtraction circuit to the addition or the subtraction, the signals of the first ensemble and the second ensemble are selectively extracted from the demodulation circuits.